

**Clean Copy of Claims Following Entry of Amendments  
in Response to Restriction Requirement  
and Preliminary Amendment**

1. (Amended) An isolated nucleic acid molecule selected from the group consisting of:

a) a nucleic acid molecule having a nucleotide sequence which is at least 90% identical to the nucleotide sequence of any one of SEQ ID NO: 59, SEQ ID NO: 60, and the nucleotide sequence of a cDNA clone deposited with ATCC® as Accession number PTA-151, or a complement thereof;

b) a nucleic acid molecule comprising at least 400 nucleotide residues and having a nucleotide sequence identical to at least 400 consecutive nucleotide residues of any one of SEQ ID NO: 59, SEQ ID NO: 60, and the nucleotide sequence of a cDNA clone deposited with ATCC® as Accession number PTA-151, or a complement thereof;

c) a nucleic acid molecule which encodes a polypeptide comprising the amino acid sequence of any one of SEQ ID NO: 61, SEQ ID NO: 63, and the amino acid sequence encoded by a cDNA clone deposited with ATCC® as Accession number PTA-151 or a complement thereof; and

d) a nucleic acid molecule which encodes a fragment of a polypeptide comprising the amino acid sequence of any one of SEQ ID NO: 61, SEQ ID NO: 63, and the amino acid sequence encoded by a cDNA clone deposited with ATCC® as Accession number PTA-151 or its complement, wherein the fragment comprises at least 200 consecutive amino acid residues of any one of SEQ ID NO: 61, SEQ ID NO: 63, and the amino acid sequence encoded by the cDNA clone deposited with ATCC® as Accession number PTA-151 or its complement.

24. (New) The isolated nucleic acid molecule of claim 1, having a nucleotide sequence which is at least 90% identical to the nucleotide sequence of any one of SEQ ID NO:

59, SEQ ID NO: 60, and the nucleotide sequence of a cDNA clone deposited with ATCC® as Accession number PTA-151, or a complement thereof.

25. (New) The isolated nucleic acid molecule of claim 24, having a nucleotide sequence which is at least 98% identical to the nucleotide sequence of any one of SEQ ID NO: 59, SEQ ID NO: 60, and the nucleotide sequence of a cDNA clone deposited with ATCC® as Accession number PTA-151, or a complement thereof.

26. (New) The isolated nucleic acid molecule of claim 24, having a nucleotide sequence at least 98% identical to SEQ ID NO: 59 operably linked within a recombinant expression vector.

27. (New) The isolated nucleic acid molecule of claim 24, having a nucleotide sequence identical to the nucleotide sequence of any one of SEQ ID NO: 59, SEQ ID NO: 60, and the nucleotide sequence of a cDNA clone deposited with ATCC® as Accession number PTA-151, or a complement thereof.

28. (New) The isolated nucleic acid molecule of claim 24, having a nucleotide sequence identical to either of SEQ ID NOs: 59 and 60 operably linked with a recombinant expression vector.

29. (New) The isolated nucleic acid molecule of claim 1, comprising at least 400 nucleotide residues and having a nucleotide sequence identical to at least 400 consecutive nucleotide residues of any one of SEQ ID NO: 59, SEQ ID NO: 60, and the nucleotide sequence of a cDNA clone deposited with ATCC® as Accession number PTA-151, or a complement thereof.

30. (New) The isolated nucleic acid molecule of claim 29, comprising at least 650 nucleotide residues and having a nucleotide sequence identical to at least 650 consecutive nucleotide residues of any one of SEQ ID NO: 59, SEQ ID NO: 60, and the nucleotide sequence

of a cDNA clone deposited with ATCC® as Accession number PTA-151, or a complement thereof.

31. (New) The isolated nucleic acid molecule of claim 29, having a nucleotide sequence identical to at least 650 consecutive nucleotide residues of SEQ ID NO: 59 operably linked within a recombinant expression vector.

32. (New) The isolated nucleic acid molecule of claim 1, which encodes a polypeptide comprising the amino acid sequence of any one of SEQ ID NO: 61, SEQ ID NO: 63, and the amino acid sequence encoded by a cDNA clone deposited with ATCC® as Accession number PTA-151 or a complement thereof.

33. (New) The isolated nucleic acid molecule of claim 32, operably linked within an expression vector.

34. (New) The isolated nucleic acid molecule of claim 1, which encodes a fragment of a polypeptide comprising the amino acid sequence of any one of SEQ ID NO: 61, SEQ ID NO: 63, and the amino acid sequence encoded by a cDNA clone deposited with ATCC® as Accession number PTA-151 or its complement, wherein the fragment comprises at least 200 consecutive amino acid residues of any one of SEQ ID NO: 61, SEQ ID NO: 63, and the amino acid sequence encoded by the cDNA clone deposited with ATCC® as Accession number PTA-151 or its complement.

35. (New) The isolated nucleic acid molecule of claim 34, which encodes a fragment of a polypeptide comprising the amino acid sequence of any one of SEQ ID NO: 61, SEQ ID NO: 63, and the amino acid sequence encoded by a cDNA clone deposited with ATCC® as Accession number PTA-151 or its complement, wherein the fragment comprises at least 200 consecutive amino acid residues of any one of SEQ ID NO: 61, SEQ ID NO: 63, and the amino acid sequence encoded by the cDNA clone deposited with ATCC® as Accession number PTA-151 or its complement.

36. (New) The isolated nucleic acid molecule of claim 34, wherein the fragment comprises at least 200 consecutive amino acid residues of SEQ ID NO: 63.

3. (Amended) The nucleic acid molecule of claim 1, further comprising a vector nucleic acid sequence.

4. (Amended) The nucleic acid molecule of claim 1, further comprising a nucleic acid sequence encoding a heterologous polypeptide.

5. A host cell which contains the nucleic acid molecule of claim 1.

6. The host cell of claim 5 which is a mammalian host cell.

7. A non-human mammalian host cell containing the nucleic acid molecule of claim 1.

16. A method for detecting the presence of a nucleic acid molecule of claim 1 in a sample, comprising the steps of:

- a) contacting the sample with a nucleic acid probe or primer which selectively hybridizes with the nucleic acid molecule; and
- b) determining whether the nucleic acid probe or primer binds with a nucleic acid molecule in the sample.

17. The method of claim 16, wherein the sample comprises mRNA molecules and is contacted with a nucleic acid probe.

18. A kit comprising a compound which selectively hybridizes with a nucleic acid molecule of claim 1 and instructions for use.

37. (New) An isolated nucleic acid molecule selected from the group consisting of:

- a) a nucleic acid molecule having a nucleotide sequence which is at least 90% identical to the nucleotide sequence of any one of SEQ ID NO: 59, SEQ ID NO: 60, and the nucleotide sequence of a cDNA clone deposited with ATCC<sup>®</sup> as Accession number PTA-151, or a complement thereof;
- b) a nucleic acid molecule comprising at least 400 nucleotide residues and having a nucleotide sequence identical to at least 400 consecutive nucleotide residues of any one of SEQ ID NO: 59, SEQ ID NO: 60, and the nucleotide sequence of a cDNA clone deposited with ATCC<sup>®</sup> as Accession number PTA-151, or a complement thereof;
- c) a nucleic acid molecule which encodes a polypeptide comprising the amino acid sequence of any one of SEQ ID NO: 61, SEQ ID NO: 63, and the amino acid sequence encoded by a cDNA clone deposited with ATCC<sup>®</sup> as Accession number PTA-151 or a complement thereof; and
- d) a nucleic acid molecule which encodes a fragment of a polypeptide comprising the amino acid sequence of any one of SEQ ID NO: 61, SEQ ID NO: 63, and the amino acid sequence encoded by a cDNA clone deposited with ATCC<sup>®</sup> as Accession number PTA-151 or its complement, wherein the fragment comprises at least 200 consecutive amino acid residues of any one of SEQ ID NO: 61, SEQ ID NO: 63, and the amino acid sequence encoded by the cDNA clone deposited with ATCC<sup>®</sup> as Accession number PTA-151 or its complement,

wherein the nucleic acid molecule encodes a polypeptide that exhibits a property selected from the group consisting of

- i) ability to bind with hyaluronic acid;
- ii) ability to modulate human brain tissue organization;
- iii) ability to modulate interaction of human brain cells with brain extracellular matrix;
- iv) ability to modulate movement of human brain cells through brain extracellular matrix;

- v) ability to modulate growth of human brain cells;
- vi) ability to modulate proliferation of human brain cells;
- vii) ability to modulate differentiation of human brain cells;
- viii) ability to modulate adhesion between human brain cells; and
- ix) ability to modulate formation of neurological connections between human brain cells.

38. (New) The isolated nucleic acid molecule of claim 37, wherein the property is selected from the group consisting of iii) to ix) and wherein the human brain cells are glial cells.

39. (New) The isolated nucleic acid molecule of claim 38, wherein the glial cells are cells of a glioma.

40. (New) The isolated nucleic acid molecule of claim 39, wherein the glioma is selected from the group consisting of an astrocytoma, an endophytic retinoblastoma, an exophytic retinoblastoma, an ependymoma, a ganglioglioma, a nasal glioma, an optic glioma, a Schwannoma, and a mixed glioma.